SHCHEBUNYAYEV, G.

In search of production potentialities. NTO 5 no.1:8-12 Ja '63.
(MIRA 16:5)

1. Chlen prezidiuma TSentral'nogo komiteta professional'nogo soyuza
rabochikh stroitel'stva i promyshlennosti stroitel'nykh materialov.
(Lvov Province--Cement industries)

KOVALEV, Gavriil Nikiforovich; SHCHEBUNYAYEV, M.

[Wages at plants of the cement, reinforced concrete, and asbestos-cement industry]Oplata truda na predpriiatiiakh tsementnoi, zhelezobetonnoi i asbestotsementnoi promyshlennosti. Moskva, Izd-vo VTsSPS, 1961. 151 p.

(MIRA 15:9)

(Wages--Building materials industry)

TIKHOMIROV, V.G.; VEYMARN, A.B.; ZHURAVLEV, B.Ya.; TIKHOMIROVA, E.I.;
        SHCHEBUNYAYEV, M.P.

Two types of banded structures in acid igneous rocks (Karkaralinsk
District in central Kazakhstan). Vest. Mosk. un. Ser. 4; Geol.
18 no.3:25-30 My-Je '63.   (MIRA 16:10)

1. Kafedra istoricheskoy i regional'noy geologii Moskovskogo
universiteta.

SHCHECHIN, V., michman

On the signal bridge on a rough sea. Starsh.-serezh. no.12:12-13
D '61. (MIRA 15:3)
(Submarine boats)

SHCHYECHKIN, V. N.

USSR/Medicine - Tissue Therapy   Sep/Oct 51

"Tissue Therapy in Various Otolaryngological Diseases," V. N. Shchyechkin, Div of Diseases of the Ear, Nose and Throat, Cen Clinical Hospal, Min of Communications, and Cen Sci Res Inst of Otorhinolaryngol, Min of Pub Health RSFSR

Vest Oto-Rino-Laringol" No 5, pp 26, 27

Reports on 83 cases treated by tissue therapy. The patients fall into 3 groups: those suffering from neuritis of the 8th or auditory nerve; patients with scarring and contraction of the esophagus; and patients with atrophic rhinitis

196T87

USSR/Medicine - Tissue Therapy   Sep/Oct 51
            (Contd)

(ozena). In the great majority of cases there was a great improvement in disposition, sleep, appetite, an increase in ability to work. Depression, headaches, and inertia disappeared. The hemographic record showed no disturbance worthy of attention.

196T87

SHCHECHKIN, V. N.

Jaws — Cancer

Malignant neoplasms of the maxilla. Vest. oto-rin. 14, No. 2, 1952.

SHCHECHKIN, V. N.

"The Paths of the Outflow of Lymph From the Mucous Membrane of the Superior Maxillary Sinus and the Speed of Absorption From It of Pencillin." Cand Med Sci, Moscow Medical Stomatological Inst, Moscow, 1954. (MR, 16 Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SC: Sum. No. 521, 2 Jun 55

SHCHECHKIN, V.N.

Use of d'Arsonval's current in combination with other methods in acute and chronic maxillary sinusitis. Vest. oto-rin. 16 no.3: 50-51 My-Je '54. (MLRA 7:7)

1. Iz Nauchno-issledovatel'skogo instituta bolezney ukha, gorla i nosa (dir. zasluzhennyy deyatel' nauk prof. V.K.Trutnev), iz oto-laringologicheskogo otdeleniya (nach. prof. N.A.Bobrovskiy) TSentral'noy klinicheskoy bol'nitsy Ministerstva putey soobshche-niya i iz Bol'neologicheskoy lechebnitsy No. 1 Mostoredravotdela.
(SINUSITIS,
    *maxillary, ther., d'Arsonval's current with medication)
(ELECTROTHERAPY, in various diseases,
    *maxillary sinusitis, d'Arsonval's current with medication)

SHC.LECHKIN, V.I.

Lymph drainage paths from the mucous membrane of the maxillary
sinus. Trudy gos.nauch.-issl.inst.ukha, gorla i nosa. 6:315-323
'55.   (MIRA 12:10)

1. Iz otdela morfologii (zav. - prof.G.F.Ivanov) Gosudarstvennogo
nauchno-issledovatel'skogo instituta ukha, gorla i nosa.
    (NOSE, ACCESSORY SINUSES OF) (LYMPHATICS)
              (MUCOUS MEMBRANE)

SHCHECHKIN, V.N., kandidat meditsinskikh nauk
    Plastic surgery for closing postoperational openings behind the ears.
Vest.oto-rin. 18 no.5:100 S-O '56.
    (EAR--SURGERY)   (MLRA 9:11)

SHCHECHKIN, V.N., starshiy nauchnyy sotrudnik; FEDOROVA, V.A., nauchnyy
sotrudnik.

Penicillin content of the mucous membrane of the upper respiratory
tract depending on various ways of administration [with summary in
English]. Vest.oto-rin. 19 no.6:44-48 N-D '57   (MIRA 11:3)

1. Iz otdela ostrykh infektsiy (zav.-prof. P.P.Sakharov)
Gosudarstvennogo nauchno-issledovatel'skogo instituta ukha, gorla
i nosa (dir.-zasluzhennyy deyatel' nauki prof. V.K.Trutnev)
        (RHINITIS, exper.
            penicillin content in mucosa of upper resp. tract
            following various ways of admin. in rabbits)
        (PENICILLIN, admin.
            content in mucosa of upper resp. tract in exper.
            rhinitis following various ways of admin.)
        (MUCOUS MEMBRANES, physiol.
            penicillin accumulation in upper resp. tract in exper.
            rhinitis following various ways of admin. in rabbits)

SHCHECHKIN, V.M., kand.med.nauk

Severe epistaxis in Osler-Rendu disease. Vest.oto.-rin. 20 no.4:96-97
Jl-Ag '58   (MIRA 11:7)

1. Iz otolaringologicheskogo otdeleniya TSentral'noy klinicheskoy
bol'nitsy Ministerstva putey soobshcheniya.
          (ANGIOMATOSIS, compl.
               Osler-Rendu dis., with severe epistaxis (Rus))
          (EPISTAXIS, etiol. & pathogen.
               Osler-Rendu dis. (Rus))

SHCHECHKIN, V.N., kand.med.nauk

Giant-cell tumors of the jaws. Zhur. ush., nos. i gorl. bol.
20 no.5:42-45 S-O '60.
(MIRA 14:6)

1. Otdeleniye ukha, gorla i nosa TSentral'noy klinicheskoy
bol'nitsy Ministerstva putey soobshcheniya.
(JAWS--TUMORS)

SHCHECHKIN, V.N., kand.med.nauk (Moskva)

"Angina" by A.V. Korchagin. Reviewed by V.N. Shchechkin.
Med. sestra 21 no.2:62-63 F '62.   (MIRA 15:3)
                           (THROAT--DISEASES)
                           (KORCHAGIN, A.V.)

SHCHECHKIN, V.N., kand.med.nauk

Actinomycosis of the larynx. Zhur.ush.,nos.i gorl.bol. 22 no.4:
72-75 Jl-Ag '62.   (MIRA 16:2)

1. Iz kafedry bolezney ukha, gorla i nosa (zav. - prof. Ye.N.
Manuylov) Moskovskogo meditsinskogo stomatologicheskogo instituta
i TSentral'noy klinicheskoy bol'nitsy Ministerstva putey soob-
shcheniya.
            (ACTINOMYCOSIS)   (LARYNX—DISEASES)

KANDAUROVA, Ye.I., vrach; MAZUNINA, G.N., kand.med.nauk; PRON'KOVA, Ye.P.
vrach; TORUBAROVA, N.A., vrach; SHATALOV, N.N., kand.med.nauk;
SIDEL'NIKOVA, T.Ya., kand.med.nauk; SHCHECHKIN,V.N., kand.med.
nauk.

Hints of the "Zdorov'e". Zdorov'e 9 no.5:30-31 My'63.
(MIRA 16:9)

(HYGIENE)

SHCHECHKIN, V.N., kand.med.nauk

Cancer of the nasal septum developing a year after the re-
covery from a laryngeal neoplasm. Zhur. ush.,nos.i gorl.bol.
23 no.3:77-78 My-Je'63.   (MIRA 16:7)

1. Iz kliniki bolezney ukha, gorla i nosa (zav.-prof. Ye.N.
Manuylov) Moskovskogo meditsinskogo stomatologicheskogo instituta
i otorinolaringologicheskogo otdeleniya TSentral'noy klinicheskoy
bol'nitsy Ministerstva putey soobshcheniya.
        (LARYNX—TUMORS)   (NOSE—CANCER)

MARENIN, Yu.G.; SHCHECHKIN, Ye.S., inzh., red.

[Error correcting codes for the transmission and process-
sing of information] Korrektiruiushchie kody dlia pere-
dachi i pererabotki informatsii. Kiev, Tekhnika, 1965.
169 p.   (MIRA 19:1)

SHCHEDOV, P.P.

Panel and slot-type exhaust for local ventilation during electric welding operations. Avtom, svar. 17 no.4:90-91 Ap '64   (MIRA 18:1)

1. Ukrainskiy respublikanskiy Sovet professional'nykh soyuzov.

SHCHEDRAKOV, V.I., red.

[Papers by the Faculty of Medical Judical Jurisprudence of the
Rostov Medical Institute] Sbornik nauchnykh rabot. Red. kolleg.
V.I.Shchedrakov i dr. Rostov-na-Donu, 1959. 248 p.
                                      (MIRA 14:7)
I. Rostov-on-Don. Meditsinskiy institut. Kafedra sudebnoy meditsiny.
           (MEDICAL JURISPRUDENCE)

DAVYDOV, B.I.; SHCHEDRENOK, V.F.

Fundamental differences between the social and economic consequences of technological progress under socialism and capitalism. Trudy
LIEI   no.35:3-23 '61.   (MIRA 14:8)
                    (Technology and civilization)

TIKHONOV, Ivan Artem'yevich; SHCHEDRENOK, Vladimir Petrovich;
PISKUNOV, V.T., red.; BAZLOVA, Ye.M., ml. red.;
PONOMAREVA, A.A., tekhn. red.

[Main economic task and the technological progress in the
U.S.S.R.] Glavnaia ekonomicheskaia zadacha i tekhnicheskii
progress v SSSR.　Moskva, Ekonomizdat, 1963.　246 p.
(MIRA 16:9)

(Technology)　　(Russia--Economic policy)

SHCHEDRIN, A.,kand. tekhn. nauk

Precast reinforced concrete shell roofs for granaries. Sel'. stroi.
13 no. 7:18-20 Jl '58.   (MIRA 11:8)
                        (Granaries)
                        (Roofs, Shell)

KRUTOV, P., kand.tekhn.nauk; SHCHEDRIN, A., kand.tekhn.nauk;
        FRESTIN, F., arkhitektor

        Sheep houses made of precast reed-reinforced concrete.
        Sel.stroi. 15 no.1:25-26 Ja '60.   (MIRA 15:7)
                    (Precast concrete construction)
                        (Sheep houses and equipment)
                            (Reed products)

N. Ie..., inst.; ShCH tr-II, ... inst,

Corrosive effect of gases used in the waste heat boilers of the
sulfuric acid industry. Prom, energ, 20 no,10:20-25 0 '65.

(MIRA 18.10)

SIDORENKO, L.V., inzh.; SHCHEDRIN, A.N., inzh.

More precise determination of the maximum coefficient of
hydraulic resistance of tubes. Gor. zhur. no.10:69 O '63.
                                          (MIRA 16:11)

1. Institut gornogo dela AN UkrSSR.

L 38718-66   EWT(1)

ACC NR: AR6014196   SOURCE CODE: UR/0271/65/000/011/B023/B023

AUTHOR: Antonov, V. A.; Shchedrin, A. S.

35
13

TITLE: Random-number generator

SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitel'naya tekhnika, Abs. 11B195

REF SOURCE: Uch. zap. Bashkirsk. un-t, vyp. 20, 1965, 137-139

TOPIC TAGS: noise generator, random noise signal

ABSTRACT: A random-number generator designed with electron tubes and a thyratron is described. A TG1-0,1/1,3 thyratron is employed as a noise generator. The noise is amplified by a 6Zh4 tube and shaped by a 6N8S tube. The shaped signal is amplified by a 6N8S tube. Nominal data of all circuit components is given. Two figures. Bibliography of 2 titles. N. P. [Translation of abstract]

SUB CODE: 09

Card 1/1   UDC: 681.142.67

ACCESSION NR: AT4013174

contact resistance (the difference between the measured thermal resistance and the reciprocal of the coefficient of heat exchange), where $\alpha_0 = \dfrac{\lambda Na}{d} Nu_{theor}$, it is concluded that the higher contact resistance on the cooled surface is caused by the deposition of sodium oxide from the liquid metal, since the resistance increases in direct proportion to the relative oxygen content. The maximal value of R_k is approximately 0.0002 M^2. hours·degrees/kcal. The requirements for metal purification may be evaluated on the basis of the curves relating the coefficient of heat exchange to the O_2 content. Orig. art. has: 3 figures and 2 formulas.

ASSOCIATION: None

SUBMITTED: 00   DATE ACQ: 20Feb64   ENCL: 00

SUB CODE: MM, TD   NO REF SOV: 006   OTHER: 002

Card

MIRONOV, S.A., doktor tekhn. nauk, prof.; KRIVITSKIY, M.Ya., kand. tekhn. nauk;
  SCHASTNYY, A.N., inzh.; pri uchastii: DUBOLAZOV, N.M., inzh.; SHCHEDRIN,
  A.Ya., inzh.; IFTINKA, G.A. red. izd-va; BOROVNEV, N.K., tekhn. red.

[Instructions for manufacturing large air-entrained concrete articles]
Ukazaniia po izgotovleniiu krupnorazmernykh gazobetonnykh izdelii.
Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit. materialam,
1960.   30 p.   (MIRA 14:6)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut betona i zhe-
lezobetona, Perovo. 2. Chlen-korrespondent Akademii stroitel'stva i ar-
khitektury SSSR (for Mironov). 3. Laboratoriya yacheistykh, legkikh i uskoren-
nogo tverdeniya betonov Nauchno-issledovatel'skogo instituta betona i
zhelezobetona Akademii stroitel'stva i arkhitektury SSSR (for Schastnyy,
Krivitskiy)   (Continued on next card)

MIRONOV, S.A., —— (continued) Card 2.
        4. Laboratoriya stroitel'nykh materialov Zapadno-Sibirskogo filiala
        Akademii stroitel'stva i arkhitektury SSSR (for Dubolazov). 5. TSen-
        tral'naya nauchno-issledovatel'skaya laboratoriya Novosibirskogo
        sovnarkhoza (for Shchedrin)
                                (Lightweight concrete)

TRIFONOV, N. P.
TIFONOV, N.P.: SHCHEDRIN, B.H.

, "The Application of Universal Computers to X-Ray Structure Analysis"

a report presented at symposium of the International Union Conference
of Crystallography Leningrad   21-27 My 1959

SO: B 3,135,471   28 July 1959

SOV/70-4-3-7/32

The Solution of the Basic Problems of Structure Analysis on Universal
Calculating Machines

7) calculation and output of $(F_o - F_c)$;
8) refinement by the method of differential synthesis;
9) refinement by the method of differential synthesis
+ estimation of accuracy + calculation of $\delta(x, y)$ from F_c .

The calculation of the Fourier synthesis is made at
intervals of 1/60 or 1/120 of the unit cell edges with
maximum indices of 30. The maximum number of F_{hk} values
which can be used is 1524. For a centre-symmetric group
the summation takes 10-30 minutes and for a non-centro-
symmetric group twice as long.
Structure factors are calculated from the usual formula.
f_i is held on the machine as a table in steps of 0.1 in
$\sin \theta/\lambda$ and is found by linear interpolation. $\sin \theta/\lambda$ is
calculated from $\sin \theta/\lambda = (Ah^2 + Bk^2 + Chk + D)^{1/2}$.
Up to 95 atoms of 24 sorts can be handled. Not more than
63 can be of one sort. The usual calculation time (for
a zone) is 20-30 minutes, including a double check.

Card2/3

SOV/70-4-3-7/32

The Solution of the Basic Problems of Structure Analysis on Universal
Calculating Machines

> Each refinement cycle (of a zone) takes an average time
> of 35-40 min.
> There are 4 references, 3 of which are Soviet and 1
> international.

ASSOCIATION: Vychislitel'nyy tsentr MGU (Calculating Centre,
        Moscow State University)

SUBMITTED: February 24, 1959

Card 3/3

SIMONOV, V.I.; SHCHEDRIN, B.M.

Fourier integral from the minimum phase function, and the signs of structural amplitudes. **Kristallografiia** 6 no.3:363-374 My-Je '61.
(MIRA 14 8,

1. Institut kristallografii AN SSSR i Vychislitel'nyy tsentr Moskovskogo gosudarstvennogo universiteta imeni M.V. Lomonosova.
(Fourier's series) (Lattice theory)

SHCHEDRIN, B.M.

Standard (67SP) program for calculating sin x. Vych. met. i prog.
1:335-338 '62.   (MIRA 15:8)
              (Programming (Electronic computers))
                  (Trigonometrical functions)

SHCHEDRIN, B.M.

Standard (75SP) program for calculating tg x. Vych. met. i prog.
1:339-343 '62.   (MIRA 15:3)

(Programming (Electronic computers))
(Trigonometrical functions)

PORAY-KOSHITS, M.A.; LEVIN, A.A.; SHCHEDRIN, B.I.

Use of high-speed electronic computers for calculations in X-ray
diffraction analysis; review. Kristallcgrafiia 7 no.4:643-656
Jl-Ag '62.   (MIRA 15:11)

1. Institut obshchey i neorganicheskoy khimii imeni N.S.Kurnakova.
                    (Electronic digital computers)
                        (X rays--Diffraction)

SHCHEDRIN, B.M.

Program for preparing cards of electron density levels.
Kristallografiia 8 no.6:917-918 N-D'63.   (MIRA 17:2)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

SAMPIOL, N.G.; ZASORIN, Ye.Z.; SHCHEDRIN, B.M.

Separation of the molecular component of the intensity of scattering in gaseous electron diffraction. Part 1: General correlations. Zhur. strukt. khim. 5 no.4:503-509 Ag '64.
(MIRA 18:3)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

RAIBIDI, [...].; SHAMBAN, B.[...].

Definition of [...] component [...] the intensity of scattering in [...] diffraction study. Part 2: Determination [...] Zhur. strukt. khim. 5 no.5 [...] (MIRA 18:1)

1. Moskovskiy [...]yy universitet meni M.V. Lomonosova.

AREF'EV, V.B.; LEVIN, A.A.; SHCHEDRIN, B.M.; PORAY-KOSHITS, M.A.

Realization of an "algebraic" method for finding symbols by a large computer. Zhur. strukt. khim. 5 no.6:902-905 N-D '64.   (MIRA 18:4)

1. Institut obshchey i neorganicheskoy khimii imeni Kurnakova AN SSSR i Vychislitel'nyy tsentr Moskovskogo gosudarstvennogo universiteta.

AREF'YEV, V.B.; SHCHEDRIN, B.M.; LEVIN, A.'.

Experimental study of the X-criterion by means of an electronic
computer. Zhur. strukt. khim. 6 no.1:13 - . Ja-F '65.
(MIRA 18:   )

1. Vychislitel'nyy TSentr Moskovskogo gosudarstvennogo
universiteta i Institut obshchey i neorgan' cheskey khimii
imeni N.S.Kurnakova AN SSSR. Submitted Mar .'?, 1963.

SHCHEDRIN, B.M.; RAMBIDI, N.G.

Separation of the molecular component of the intensity of
scattering in gas electron diffraction. Part 3: Realization
of the method using the "Strela-IV" electronic computer.
Zhur. strukt. khim. 6 no.1:3-8 Ja-F '65.

(MIRA 18:12)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.
Lomonosova. Submitted October 10, 1963.

L 31197-66   E:iT(d)/T   I:P(:)

ACC NR: A: 6022570   SOURCE COI E: UR/0070/66/011/002/0155/0158

AUTHOR: Shchedrin, B. M.; Tovbis, A. B.; Simonov, V. I.

ORG:Computer Center, MGU (Vychislitel'nyy tsentr MGU); Institute of Crystallography, AN SSSR (Institut kristallografii AN SSSR)

TITLE: Program for computing structural amplitude phases from the three-dimensional minimization function

SOURCE: Kristallografiya, v. 11, no. 2, 1966, 155-158

TOPIC TAGS: minimization, digital computer, phase shift analysis, electron density, electron distribution, Fourier analysis, approximation, computer program, data storage

ABSTRACT: An experimental digital computer program is described which, with F_s^2 and given phase-shift vectors, makes it possible to calculate structural amplitude phases from Fourier integrals of the minimization functions and to construct the first approximation of the electron density distribution. The program was tested on the structure of $C_8N_2O_3H_{16}Br$. The large core storage required for this problem was circumvented by increasing the computing time.
        The authors thank N. V. Belov for his interest and encouragement, N. P. Zhidkov for valuable advice, and S. T. Rao for data on the structure of D-lycine-glycine hydrobromide. [JPRS]

SUB CODE: 09, 07 / SUBM DATE: 01Jul65 / ORIG REF: 008

Card 1/1   C C   UDC: 548.734

BYKOV, Mikhail Mikhaylovich; SHCHEDRIN, B.Ye., red.; LYAKHOVICH, E.A.,
        red.izd-va; PROKOF'YEVA, L.N., tekhn.red.

    [Study of the utilization of machinery and equipment in
    lumbering enterprises] Analiz ispol'zovaniia mashin i mekha-
    nizmov v lesozagotovitel'nykh predpriiatiiakh. Moskva, Gos-
    lesbumizdat, 1959. 62 p.   (MIRA 12:12)
                    (Lumbering--Machinery)

SHCHEDRIN, Boris Yefimovich; SUKHANOVSKIY, A.I.

[Principles of planningin the lumbering industry and ways of
improving it] Osnovy planirovaniia v lesozagotovitel'noi pro-
myshlennosti i puti ego uluchsheniia. Moskva, Goslesbumizdat,
1959. 66 p.   (MIRA 14:10)
               (Lumbering)

SHCHEDRIN, Boris Yefimovich; SUKHANOVSKIY, Aleksey Il'ich; GOZHEV, Aleksandr Alekseyevich; SHVLEKHOV, V.M., red.; SHAKHOVA, L.I., red.izd-va; BACHURINA, A.M., tekhn.red.

[Manual on technical and economic standards for production planning in lumbering enterprises] Spravochnik tekhniko-ekono- micheskikh normativov dlia planirovaniia proizvodstva lesozagoto- vitel'nykh predpriiatii. Moskva, Goslesbumizdat, 1960. 259 p.
(MIRA 14:3)

(Lumbering)

SPRINTSYN, M.N.; AMALITSKIY, V.M.[deceased]; DENIS'YEV, V.I.; ZHUKOV,
        A.M.; LIKHOVIDOV, N.K.; SHCHEDRIN, B.Ye.; KAFTANOVSKIY, G.M.;
        SUKHANOVSKIY, A.I.; TSVETKOV, V.A.[deceased]; MITEL'MAN, Ye.L.;
        KALASHNIKOV, P.L.; ANDREYEV, I.I., retsenzent; SALTYKOV, M.I.,
        otv. red.; SLUTSKER, M.Z., red. izd-va; GRECHISHCHEVA, V.I.,
        tekhn. red.

        [Handbook for the logging enterprise economist]Spravochnik eko-
        nomista Lespromkhoza. Moskva, Goslesbumizdat, 1962. 291 p.
                                                    (MIRA 16:1)
                (Lumbering--Handbooks, manuals, etc.)

YANKELEVICH, Mikhail Nikolayevich; SELIVANOV, V.A., retsenzent;
        MITEL'MAN, B.Ye., retsenzent; SHCHEDRIN, B.Ye., red.;
        SLUTSKER, M.Z., red.izd-va; GRECHISHCHEVA, V.I., tekhn.
        red.

        [Analysis of the administrative operation of a lumbering
        enterprise] Analiz khoziaistvennoi deiatel'nosti lesoza-
        gotovitel'nogo predpriiatiia. Moskva, Goslesbumizdat,
        1963.   262 p.   (MIRA 17:3)

TITLE: Dependence of gamma spectrometer resolving power upon the nonuniformity of the photocathode sensitivity, and choice of the spectrometric regime for the photomultiplier FEU-43

TOPIC TAGS: gamma spectrometer, gamma spectrometer resolving power, photocathode, photomultiplier / FEU-43 photomultiplier, photomultiplier adjustment method, multichannel analyser / AMA-4S multichannel analyzer

ABSTRACT: A technique for the measurement of the photoelectric sensitivity distribution on the surface of the photocathode, and an optimum adjustment method for the photoelectric multiplier FEU-43, forming part of a gamma ray spectrometer system is discussed. A NaI(Tl) miniature crystal illuminator is arranged to scan the photosensitive surface of the photocathode while illuminating it by light flashes generated by alpha particles from Pu^{239}. A histogram of sensitivity values is obtained by sorting the photocathode output voltages using a multichannel analyser, the AMA-4S. The histogram can be influenced by adjusting the divider regime of the FEU-43. It was found that the

Card 1/2   UDC: 621.383.533

SHCHEDRIN, Grigoriy Ivanovich, vitse-admiral; IGNATKOVICH, G.M., red.;
        MEDNIKOVA, A.N., tekhn.red.

        [Aboard the S-56] Na bortu S-56. Moskva, Voen.izd-vo M-va obor.
        SSSR, 1959. 212 p.   (MIRA 13:3)
                        (Submarine warfare)

SHCHEDRIN, Grigoriy Ivanovich, Vitse-admiral,,Geroy Sovetskogo Soyuza;
TSAREV, F., glav. red.; GONCHARENKO, Yu., tekhn. red.

[We of the submarine fleet; stories of a submariner]My s pod-
plava; rasskazy podvodnika. Moskva, Voen.izd-vo M-va oborony
SSSR, 1962. 47 p. (Binliotechka zhurnala "Sovetskii voin,"
no.15(442))   (MIRA 15:10)
                (World War, 1939-1945--Naval operations)
                      (Submarine warfare)

SHCHEDRIN, G., Geroy Sovetskogo Soyuza, vitse-admiral

    Expeditious carrying out of assigned duties is the most valuable
characteristic of Soviet submariners. Komm.Vooruzh.Sil 2
no.11:36-42 Je '62.   (MIRA 15:5)
              (Submarine boats)

SHCHEDRIN, G., vitse-admiral, Geroy Sovetskogo Soyuza

Road to a great voyage. Voen. znan. 38 no.6:13-14 Je '62.

(Submarine boats)   (MIRA 15:6)

SHCHEDRIN, G., vitsa-admiral, Geroy Sovetskogo Soyuza

Combat deeds of soldiers of the fleet. Komm. Vooruzh. Sil 46
no.8:55-58 Ap '65.   (MIRA 18:6)

SHCHEDRIN, G., vitse-admiral, Geroy Sovetskogo Soyuza

Performance glorifies the sailor. Voen. znan. 41 no.10:6-7 O '65.
(MIRA 18:10)

(MIRA 18:6)

SHCHEDRIN, I.G. (Rostov-na-Donu)

Work experience in a medical cosmetic room of a skin dispensary. Vest.derm. i ven. no.9:73-74'62.   (MIRA 16:7)

1. Iz dorozhnogo kozhnogo dispansera (nachal'nik - zasluzhennyy vrach RSFSR K.G.Borshchevskiy) Severo-Kavkazskoy zheleznoy dorogi.
          (COSMETICS)   (DERMATOLOGY)

S/759/62/000/003/018/021

AUTHORS: Val'dner, O. A., Sinitsyna E. A., Sobenin, N. P., Shchedrin, I. S.

TITLE: Parametrization of group velocity

Source: Moscow. Inzhenerno-fizicheskiy institut. Uskoriteli. no.3.1962. 185-191

TEXT: It is shown that the dependence of the group velocity in a linear el-
ectron accelerator on the geometric dimensions and phase velocity of the wave
can be represented for an iris waveguide in parametric form. Parametric curves
are plotted for $\pi/2$ modes from the results of experimental data. The parameters
involved are $k_n a$ (where $k_n = 2\pi/\lambda_n$ is the wave number of the n-th mode with
wavelength λ_n and 2a is the diameter of the iris opening), $k_n b$ (where 2b is the
inside diameter of the waveguide proper), β_n (the phase velocity), and η (the
relative thickness of the diaphragm). The experimental curves are plotted for
the following parameter ranges:β - from 0.4 to 1, λ - from 10 to 11 cm, a/b -
from 0.2 to 0.5, a/λ - from 0.08 to 0.2, and iris thickness 0.4 cm. The group
velocity is then readily obtainable from an approximate formula. The errors
of the method are analyzed. There are two figures and two tables.

Card 1/1

S/759/62/000/004/004/016
D207/D308

AUTHORS: Gavrilova, R. K., Milovanov, O. S., Sobenin, N. P. and
            Shchedrin, I. S.

TITLE: Frequency response characteristic of a waveguide buncher
            for a linear electron accelerator

SOURCE: Inzhenerno-fizicheskiy institut. Moscow. Uskoriteli,
            no. 4, 1962, 20-28

TEXT: It is shown that a 120 cm long buncher for a 3 MeV accelera-
tor of γ-10 (U-10) type must have a microwave reflection coeffi-
cient not greater than 0.07 at + (6-8) Mc/s from the working fre-
quency. The buncher considered Is of the corrugated (diaphragm)
type and suffers from (1) relatively high wave admittance in the
first sections producing considerable reflections, and (2) inaccu-
racies in the section dimensions giving rise to further reflections.
The effect (1) can be reduced by using thinner diaphragms. This
does not alter the electron-beam parameters since the accelerating
field intensity does not vary strongly with the diaphragm thick-

Card 1/2

Frequency response characteristic ...   S/759/62/000/004/004/016
                                           D207/D308

ness and the resultant phase velocity changes can be compensated
by varying the inner diameter of the waveguide itself in the first
sections. The effect (2) can be reduced by a suitable selection
of rings and diaphragms forming the buncher sections: three iden-
tical rings, two half-rings and two pairs of diaphragms are used.
The success of this arrangement is demonstrated by almost complete
similarity of the transmission band of the input-waveguide trans-
former and the same transformer coupled to the buncher, indicat-
ing a transformer/buncher reflection coefficient of 0.1 in the
$\pm$ 15 Mc/s range on both sides of the working frequency. There are
7 figures.

Card 2/2

S/759/62/000/004/007/016
D207/D308

AUTHORS: Zverev, B. V., Sobenin, N. P. and Shchedrin, I. S.

TITLE: Parametric representation of the dispersion curve of a
           circular diaphragm-type waveguide. I

SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Uskoriteli,
           no. 4, 1962, 52-69

TEXT: It is difficult to calculate or measure the dispersion cur-
ve of a diaphragm-type waveguide, i.e. the dependence of the phase
velocity in the waveguide on the frequency of the power supply.
It is more convenient to use parametric curves for determination
of the frequency of a particular wave mode in a wide range of
waveguide dimensions, wavelengths and phase velocities. The authors
first derived the dispersion equation in a form convenient for
parametric representation. Then they measured the resonance fre-
quencies of the 0, $\pi/4$, $\pi/3$, $\pi/2$, $2/3\pi$, $3/4\pi$, π modes using an
oscillator ГC-10 (GS-10) consisting of several rings and dia-
phragms held in a press ПГЛ-5 (PGL-5) in order to avoid any change

Card 1/2

Parametric representation of ...

S/759/62/000/004/007/016
D207/D308

in dimensions. Parametric curves are given for the wave modes $\pi/4$, $\pi/3$, $2/3\pi$, $3/4\pi$, derived from these resonance frequencies. From these curves one can plot parametric nomograms for calculations of the group velocity, derivatives of the phase velocity and of the frequency with respect to the waveguide dimensions, derivatives of the phase velocity with respect to the frequency, etc. The results used to plot the parametric curves may also be employed for the determination of the coefficients occurring in the series expansion of the dispersion curve (see Part II). There are 5 figures and 8 tables.

Card 2/2

ACCESSION NR: AT4019730   S/2759/63/000/005/0146/0155

AUTHOR: Milovanov, O. S.; Shchedrin, I. S.

TITLE: Study of the operation of a magnetron on a resonant chamber

SOURCE: Moscow. Inzhenerno-fizicheskiy Institut. Uskoriteli (Accelerators), no. 5, 1963, 146-155

TOPIC TAGS: magnetron, resonant chamber, generator, resonator, load, absorbing load, transmission line

ABSTRACT: In this article a method is considered for an approximate analysis of the conditions which ensure a stable operation of the generator at a given frequency. The proposed method allows us to obtain a more precise solution if the experimental characteristics of the resonator and the magnetron are used. The following conclusions are obtained: 1) stable operation of the magnetron can be achieved only when decoupling devices are used; 2) if we use an active absorbing load as a decoupling device, then the magnitude of the absorbed power strongly depends on the length of the transmission line and increases with this length; 3) the proposed analysis method has an accuracy of about ± 10%.

ASSOCIATION: Inzhenerno-fizicheskiy Institut, Moscow (Engineering-Physics
Card 1/2

SHCHEDRIN, I.S.

Measuring the Q-factor of a resonator with allowance for losses in
the coupling circuit. Uskoritali no.5:156-162 '63. (MIRA 17:4)

SOBENIN, N.P.; SHCHEDRIN, I.S.; GRYZLOV, A.V.; ZVEREV, B.V.

Representation of the principal high-frequency charac-
teristics of a round septate waveguide in graphical form.
Radiotekh. i elektron. 8 no.11:1945-1949 N '63.
(MIRA 17:1)

L 22489-65   EWT(1)/EEC-4/EWA(h)   Peb   ESD(gs)/ESD(t)
ACCESSION NR: AT5001492   S/2759/64/000/006/0021/0028

AUTHOR: Zverev, B. V.; Sobenin, N. P.; Tragov, A. G.; Shchedrin, I. S.

TITLE: Determination of attenuation in round diaphragmed waveguides

SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Uskoriteli, no. 6, 1964, 21-28

TOPIC TAGS: periodic waveguide, diaphragmed waveguide, attenuation, quality factor

ABSTRACT: The authors present calculated data for the plotting of theoretical attenuation curves for a diaphragmed waveguide with diaphragm thickness 4.00 mm and for several wavelengths. They point out, however, that calculations do not always yield the actual values of the attenuation, since the formulas have been obtained under several assumptions and since they involve the evaluation of double series. The propose therefore a method for refining the theoretical attenuation curves of diaphragmed waveguides, by measuring the Q of a segment of such a wave-guide, using the installation shown in Fig. 1 of the enclosure. An analysis of the results and a comparison with the theoretrical data shows that the accuracy with which the attenuation is determined can be reduced to less than 12%, which

Card 1/3

L 22489-65
ACCESSION NR: AT5001492

is a much lower error than results from the purely theoretical curves. Orig.
art. has: 6 figures, 11 formulas, and 1 table.

ASSOCIATION: Inzhenerno-fizicheskiy institut, Moscow (Engineering-Physics In-
stitute)

SUBMITTED: 00   ENCL: 01   SUB CODE: EC, GP

NR REF SOV: 003   OTHER: 000

Card 2/3

L 22489-65
ACCESSION NR: AT5001492   ENCLOSURE: 01

FIG. 1. Block diagram for the measurement of the Q of a sgement
of a diaphragmed waveguide

Card 3/3

L 22486-65   EWT(d)/EWT(l)/EEC(k)-2/EEC-4/EWA(h)   Po-4/Pq-4/Pg-4/Peb/Pk-4/
P1-4

ACCESSION NR: AT5001493   8/2759/64/000/006/0029/0035

AUTHOR: Val'dner, O. A.; Shchedrin, I. S.

TITLE: Method of detection and compensation for small inhomogeneities in
diaphragmed waveguides

SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Uskoriteli, no. 6, 1964, 29-35

TOPIC TAGS: periodic waveguide, diaphragmed waveguide, inhomogeneity detection,
inhomogeneity compensation

ABSTRACT: In view of the fact that experiments have disclosed the presence of
reflections in diaphragmed waveguides, due to imperfections in the interior sur-
face finish, the authors propose a method for the detection and correction of
small inhomogeneities in such waveguides. It is based on determining the band-
pass characteristics of the diaphragmed waveguide with the aid of the equipment
shown in Fig. 1 of the enclosure, and detecting the presence of small irregulari-
ties of the pass-band characteristics. To facilitate application of the method,
an automatic total-impedance meter can be incorporated in the system. The method

Card 1/3

L 22486-65

ACCESSION NR: AT5001493

is based essentially on determining the reflections from the irregularities as an absorbing load is moved along the diaphragmed waveguide. This method was tried several times and used both to measure the inhomogeneities in a diaphragmed wave-guide consisting of a bunching section and sections with constant dimensions, and to correct for these inhomogeneities by means of compensating posts. The feasibility of compensating for all the inhomogeneities is demonstrated. "The authors thank docent M. P. Sobenin for a discussion of the experimental results." Orig. art. has: 5 figures and 3 formulas .

ASSOCIATION: Inzhenerno-fizicheskiy institut, Moscow (Engineering Physics Institute)

SUBMITTED: 00   ENCL: 01   SUB CODE: EC, OP

NR REF SOV: 009   OTHER: 000
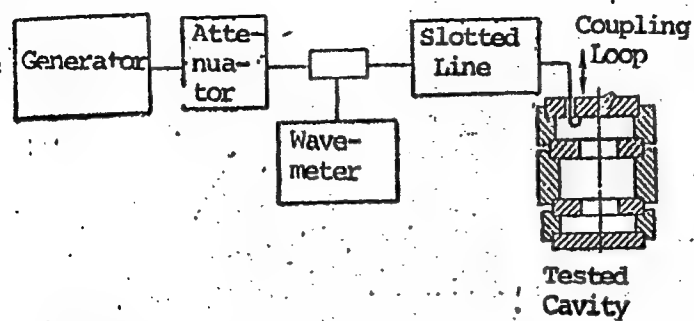
Card 2/3

L 22486-65

ENCLOSURE: 01

FIG. 1. Diagram of set-up with slotted line.

A - Attenuator, B - wavemeter, G - generator,
ML - slotted measuring line

Card 3/3

L 22490-65   EWT(1)/EEC-4/EWA(h)   Peb
ACCESSION NR: AT5001494   S/2759/64/000/006/0036/0042

AUTHOR: Milovanov, O. S.; Sobenin, N. P.; Shchedrin, I. S.

TITLE: Engineering calculation of reflections in diaphragmed waveguides

SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Uskoriteli, no. 6, 1964, 36-42

TOPIC TAGS: periodic waveguide, diaphragmed waveguide, scattering matrix, internal reflection, transmission matrix

ABSTRACT: This is a companion theoretical paper to a preceding experimental paper in this collection (by O. A. Val'dner and I. S. Shchedrin, p. 29, Accession Nr. AT5001493), in which diaphragmed waveguides are considered with constant dimensions and without losses in the walls, an assumption which is justified for the S-band. The waveguide with reflecting inhomogeneities is represented by parallel admittances located at different electrical distances from one another, and the scattering matrix is determined from the transmission matrix of the system. The reflections are assumed to be independent of the frequency, so that the band-pass characteristics depend only on the variation of the electric dis-

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L 22490-65
ACCESSION NR: AT5001494

tances from the input terminals to the existing inhomogeneities. A procedure for
determining the reflections from the experimental results obtained by the method
of the companion paper and a Smith chart is described. The method employed can
also be used for waveguides with variable parameters (bunching sections), for
other microwave bands, and for arbitrary long lines if the frequency variation
of the electrical distance of the inhomogeneities is known as a function of the
number of cells in the periodic line. Orig. art. has: 3 figures and 21 formulas.

ASSOCIATION: Inzhenerno-fizicheskiy institut, Moscow (Engineering-Physics
Institute)

SUBMITTED: 00   ENCL: 00   SUB CODE: EC
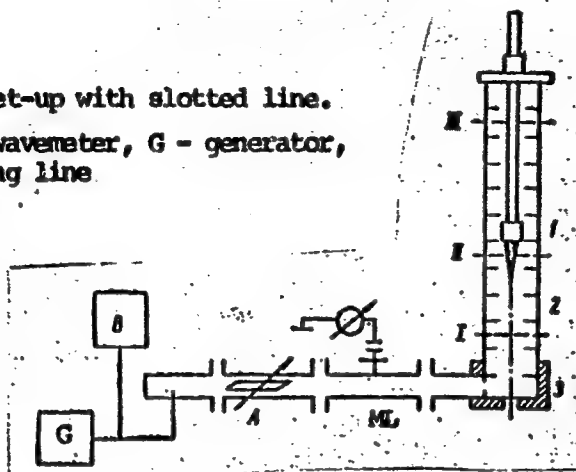
NR REF SOV: 004   OTHER: 000

Card 2/2

SHCHEDRIN, I.S.

Q-measurement of a resonator allowing for losses in coupling circuits. Uskoriteli no.6:62-64 '64.

(MIRA 18:2)

... the performance of a magnetron in a system of paired
... Lekoritelʹ nauh:65-70 ...

(MIRA 18:2)

GRAFOV, L.Ye.,red.; GUBERMAN, I.D.,red.; ZADEMIDKO,.A.N., red.; ZASYAD'KO,
 A.F., red.; KRASHIKOVSKIY, G.V., red.; KUZ'MICH, A.S., red.;
 LALAYNTS, A.M., red.; MEL'NIKOV, L.G., red.; MINDELI, E.O., kand.
 tekhn.nauk; ONIKA, D.G., doktor tekhn.nauk, red.; PANOV, A.D., red.;
 POCHENKOV, K.I., red.; TERPIGOREV. A.M., akademik, red.; USKOV,A.A.,
 red.; KHARCHENKO, A.K., red.; SHCHEDRIN, M.A., red.; BOYKO, A.A.,
 red.; MELAMED, Z.M., kand.tekhn.red.; PERVUKHIN, A.G., red.;
 BARABANOV, F.A., red.; SOSNOV, G.A., red.; TSYPKIN, V.S., red.;
 ALADOVA, Ye.I., tekhn.red.

[Restoration of the coal industry in the Donets Basin] Vosstano-
vlenie ugol'noi promyshlennosti Donetskogo basseina. Moskva, Gos.
nauchno-tekhn.izd-ve lit-ry po ugol'noi promyshl. Ugletekhizdat.
Vol.1. 1957. 371 p. Vol.2. 1957. 782 p.   (MIRA 11:4)
          (Donets Basin--Coal mines and mining)

SHCHEDRIN, M.A.

Prospects for an expansion of coal mining in Eastern Siberia. Ugol'
33 no.12:1-4 D '58.   (MIRA 11:12)

1. Gosplan RSFSR.
                (Siberia, Eastern—Coal mines and mining)

SHCHEDRIN, M.B. inzh.

Mutual blocking of transistor trigger circuits by means of a
time selection principle. Trudy VNIIE no.18:115-121 '64.
(MIRA 18:6)

KUBAREV, J.I.; SHCHEDRIN, M.I.

Use of diagram techniques for computing the electroconductivity tensor. Teoret. i eksper. khim. 1 no.4:494-504 '65.
(MIRA 18:10)

1. Institut khimicheskoy fiziki AN SSSR, Moskva.

SHCHEDRIN, N.

The all-Union conference on the mechanization of accounting and statistics based on new calculating machines. Biul. nauch. inform.: trud i zar. plata 5 no.4:44-49 '62.   (MIRA 16:1)
                    (Machine accounting--Congresses)

MALIKOV, P.M.; SHCHEDRIN, N.D.

Harvesting Sudan grass by separate stages. Zemeledelie 6 no.6:10-12
Je '58.   (MIRA 11:6)
                        (Sudan grass—Harvesting)

SHCHEDRIN, N.I.

    Mining Kadzharan deposits using the natural caving system. Biul.TSIIN
    tsvet.met. no.18:2-7 '57.   (MIRA 11:5)
            (Kadzharan--Mining engineering)

OSOVETS, S. M., PETROV, Yu. F. and SCHEDRIN, N. I.

    "Investigation of a Gas Discharge in a Uni-Connected Region." (Work - 1955);
pp. 242-263.

    "The Physics of Plasmas; Problems of Controlled Thermonuclear Reactions." Vol. II.
xexpixedxx 1958, published by Inst. Atomic Energy, Acad. Sci. USSR.
resp. ed. M. A. Leontovich, editorial work V. I. Kogan.

Available in Lirbrary.

OSOVETS, S. M. and SCHEDRIN, N. I.

"Plasma Turbulence in the Presence of Active Resistance." (Work carried out in 1957"); pp. 196-213.

'The Physics of Plasmas; Problems of Controlled Thermonuclear Reactions." Vol. III·
1958, published by Inst. Atomic Energy, Acad. Sci. USSR.
resp. ed. M. A. Leontovich, editorial work V. I. Kogan.

Available in Library.

"[ILLEGIBLE ... ... IN A DIAMAGNETIC FLUID".

By L. I. Dorts, Y. J. Dasedkin, L. I. Pavlov, Y. P. Petrov and M. I. Shchedrin.

Report presented at 2nd Militors-for-Peace Conference, Geneva, 9-13 Sept. 1958.

21(a)

PHASE I BOOK EXPLOITATION   SOV/2081

International Conference on the Peaceful Uses of Atomic Energy, 2d., Geneva, 1958

Doklady sovetskikh uchenykh; yadernaya fizika (Reports of Soviet Scientists; Nuclear Physics) Moscow, Atomizdat, 1959. 452 p. (Series: Ikh: Trudy, Vol. 1) 8,000 copies printed.

Ed.: (title page): A.I. Alikhanov, Academician; V.I. Veksler, Academician; and I.A. Vinov, Candidate of Physical and Mathematical Sciences; Ed. of this volume: E.I. Sveridov and D.F. Zaretskiy, Candidates of Physical and Mathematical Sciences; Ed. (inside book): G.L. Emelyan; Tech. Ed.: V.I. Makel'.

PURPOSE: This collection of articles is intended for scientific research workers and other persons interested in nuclear physics. The volume contains 43 papers presented by Soviet scientists at the Second Conference on Peaceful Uses of Atomic Energy, held in Geneva in September 1958.

COVERAGE: It is divided into two parts. Part I contains 17 papers dealing with plasma physics and controlled thermonuclear reactions, and Part II contains 26 papers on nuclear physics, including problems of particle acceleration and of Soviet work on controlled thermonuclear reactions. The first paper by I.A. Artsimovich presents a review of Part I deal with particular problems in this field.

The papers in Part II deal in detail with various problems in nuclear physics, such as the fission of heavy atoms and their isotopes, and with the study of cosmic radiation by means of artificial earth satellites and rockets, described in a paper by S.N. Vernov. The Russian-language edition of the proceedings of the conference is published in 16 volumes. The first 6 volumes contain all the papers presented by Soviet scientists as follows: Volume (1), Yadernye reaktory i pervaya energetika (Nuclear Reactors and Nuclear Power); Volume (2), Yadernye reaktory i pervaya energetika (Nuclear Fuel and Reactor Metals); Volume (3), Yadernye pervichery samily sostemnykh prevrashcheniy (Chemistry of Radioelements and of Radiation Trans-formations); Volume 5, Radiologiya i radiatsionnaya meditsina (Radiobiology and Radiation Medicine); Volume (6) Poluchenie i primeneniye izotopov (Pro-duction and Use of Isotopes). The other 10 volumes contain selected papers presented at the Conference by non-Soviet scientists. In the present volume discrepancies between the English and Russian language edition of the proceedings have been noted in three articles where the texts are not identical; viz. Andrianov, et al, "High Current Pulsed Discharge", Ahklyder, et al, "High Frequency Plasma Oscillations" and Bogolyubov, Investigations of the May-body Problem". The serial numbers of reports 2302 and 2306 are reversed in the English edition. Report 2311, by Simolnikov, et al, is numbered 2336 in the English edition.

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I.G. Kovalskiy, I.M. Podgornyy, N.G. Prokhorov, P.I. Filippov, V.I.
Filippov, S. Khvoshchevskiy, and V.A. Enrabov. High Current Pulsed Dis-
charge(Report 2301)   21

Komilov, V.S., M.V. Syrotnev, and S.S. Tserevitinov. Development of a
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Personalities mentioned include G.M. Arztov, D.S. Parfenov, G.B.
Milchenkov, N.A. Leonovich, I.N. Gol'dkad and K.P. Fedorenko.

Osovets, S.M., T.V. Emedkin, Ye.I. Pavlov, Yu.F. Petrov, and E.I.
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Stability and Heating of Plasma in Toroidal Chambers (Report 2327)   85

Card 4/13

SHCHERBIN, N.T., kand. ekon. nauk; VOLKOVA, I.I., inzh., red.

[Means for the mechanization of engineering and adminis-
trative management work] Sredstva mekhanizatsii inzhener-
nogo i administrativno-upravlenicheskogo truda. Moskva,
GOSINTI, 1963. 98 p. (Materialy zavodskogo opyta, sbornik 2)
                                          (MIRA 17:10)
1. Moscow. Gosudarstvennyy nauchno-issledovatel'skiy institut
nauchnoy i tekhnicheskoy informatsii.

IVANOV, Yuriy Viktorovich, kand. ekon. nauk, dots.; SHCHEDRIN,
Nikolay Ivanovich, kand. ekon. nauk, dots.; ISAKOV, V.I.,
doktor ekon. nauk, prof.; NOVIKOVA, S., red.; PYATAKOVA,
K.P., tekhn. red.

[Organization of machine accounting] Organizatsiia mekhani-
zirovannogo ucheta. Moskva, Gosstatizdat, 1963. 330 p.
(MIRA 16:12)

(Machine accounting)

ADAMOV, V.Ye.; BAKLANOV, G.I., prof.; IVANOV, A.I.; SAMOYLOVA,A.A.;
USTINOV, A.N.; SHIFMAN, A.G.; SHCHEDRIN, N.I.; CHIZHEVSKAYA,
K.M., red.

[Collecting of problems on industrial statistics] Sbornik za-
dach po statistike promyshlennosti. Moskva, Izd-vo "Statistika,"
1964. 247 p. (MIRA 17:5)

L 3611-66
ACC NR: AR5014359   SOURCE CODE: UR/0271/65/000/005/B042/B042

SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitel'naya tekhnika.
Svodnyy tom, Abs. 5B312

AUTHOR: Shchedrov, N. I.; Mochalova, V. S.

TITLE: Simple counter element

CITED SOURCE: Sb. Ustroystva i elementy prom. telemekhan., Kiyev, 1964,
77-79

TOPIC TAGS: counter, digital counter, register

TRANSLATION: One trigger-circuit register cell includes two P13 transistors
and a few resistors. The transistor T_1 collector is directly connected to the
transistor T_2 base. The absence of a resistor in this circuit precludes using the
T_1 collector potential because its value is limited by the potential of a low-

Card 1/2   UDC: 681.142.642.7

L 8611-66
ACC NR: AR5014359   O

resistance base-emitter circuit of the open T_2. As the potential of the saturated-
transistor collector, in a grounded-emitter amplifier, is somewhat lower than its
base potential, and as the collector-emitter resistance is lower than that of the
base-emitter, the trigger can be built without feedback-circuit resistors and with-
out bias. Such a trigger is insensitive to negative pulses. A six-digit register
designed with the above triggers was tested out at $0-15$ kc; the register proved to
be suitable for usage. Also, simplified trigger circuits are shown which can be
used as contactless switches or storage devices (pulses of any polarity can be
applied to the first inputs, only positive pulses can be applied to the second
inputs). Figs. 2.

SUB CODE: 09

Card 2/2   jrm

ABANINA, Anna Vasil'yevna, dots., FEDOROVA, Galina Sergeyevna, dots.; SHCHEDRIN, Nikolay Ivanovich, dots.; NOVIKOVA, S.N., red.

[Problems and exercises in the organization of machine accounting] Sbornik zadach i uprazhnenii po organizatsii mekhanizirovannogo ucheta. Moskva, Statistika, 1965. 154 p.   (MIRA 18:7)

SA

B 64
1

2480

621.316.93 : 621.3.016.3 = 82
Theory of complex asymmetrical regimes in electrical systems.
Shchedrin, N. N. Elektrichestvo (No. 5) 66-76 (1946) In Russian. -
The investigation aims at improving methods of protecting lines from
overloads. Asymmetrical regimes are usually considered as breakdowns.
A new general mathematical method has been evolved enabling quadripole
equations to be applied. Calculations are made for the cases of two
simultaneous short circuits, open circuiting of one or two phases combined
with an asymmetrical short circuit and for two simultaneous open circuits
at different points of the line. The constants of equivalent
quadripoles are tabulated, and some simplifications introduced, enabling
the use of calculating devices.   A. L.

9. <u>Monthly</u> <u>List</u> <u>of</u> <u>Russian</u> <u>Accessions</u>, Library of Congress,   1953. Unclassified.

SHCHEDRIN, N.N.

Simplification of calculations of short-circuit currents in transmission lines with longitudinal compensation. Elektrichestvo '53, No.1, 11-15. (EMA 56 no.670:3980 '53)   (MLRA 6:2)

In connection with planning and adjustment of relay protection, choice of apparatus, and detn of parameters and protection level for static capacitors of long-distance compensated 3-phase transmission lines, author substantistes feasibility of using ordinary methods to calculate chort-circuit currents of these systems. Submitted 8 Oct 52.

253T15

SHOKHABIRIN,N.N., doktor tekhnicheskikh nauk

Supplementary calculations related to the problem of double
non-symmetric commutation in electric systems. Trudy Inst.
energ. AN UzSSR no.7:3-27 '53.   (MIRA 8:9)

1. Chlen-kirrespondent Akademii nauk UzSSR
                       (Electric circuits)

SHCHEDRIN, Nikolay Nikolayevich; UL'YANOV, Sergey Aleksandrovich;
VORONTSOV, F.F., redaktor; VORONIN, K.P., tekhnicheskiy redaktor.

[Problems on the calculation of short circuits] Zadachi po raschetu
korotkikh zamykanii. Moskva, Gos. energ.izd-vo, 1955. 230 p.
    (Short circuits)   (MLRA 8:4)

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Voprosy peredachi elektroenergii na dal'niye rasstoyaniya (Problems
    in Long-distance Transmission of Electric Power) Tashkent, Izd-vo
    AN Uzbekskoy SSR, 1958.   176 p.   (Series: Its: Trudy, vyp. 11)
    650 copies printed.

Resp. Ed.: Kh.F. Fazylov, Academician, UzSSR Academy of Sciences;
    Ed. of Publishing House: N.A. Romanika; Tech. Ed.: Z.P. Gor'kovaya.

PURPOSE: The book is intended for personnel of scientific research
    institutes and for engineers and technicians of industrial design
    organizations.

COVERAGE: This collection contains five articles concerning capaci-
    tive self-excitation of synchronous and induction machines and methods
    of calculating the limits of self-excitation. An analysis is pre-
    sented of some problems of normal and emergency operating condi-
    tions of long electric transmission lines. References appear af-
    ter each article.

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TABLE OF CONTENTS:

The author selected for discussion only the simplest cases of
capacitive self-excitation (as an undesirable phenomenon),
namely, when the stator circuit of a three-phase machine is
entirely symmetrical, has constant parameters, and has in
each phase an identical capacitance connected in series.
Other cases are mentioned only superficially. The author
discusses critically the various points of view concerning
the mechanism and conditions under which self-excitation
occurs as presented in the references to his article. He
concludes that the great number varieties of capacitive
self-excitation and their classification can be related to
the physical nature of electromagnetic torque associated
with the idea of rotating magnetic fields. The author dis-
cusses the two best known types of electromagnetic moments:
the reactive and the asynchronous moments. The first of these

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